



**State of Alaska Cyber Security &
Critical Infrastructure
Cyber Advisory**

October 13, 2015

The following cyber advisory was issued by the State of Alaska and was intended for State government entities. The information may or may not be applicable to the general public and accordingly, the State does not warrant its use for any specific purposes.

ADVISORY NUMBER:

SA2015-119

DATE(S) ISSUED:

10/13/2015

SUBJECT:

Multiple Vulnerabilities in Adobe Flash Player Could Allow for Remote Code Execution (APSB15-25)

OVERVIEW:

Multiple vulnerabilities in Adobe Flash Player could allow remote code execution. Adobe Flash Player is a widely distributed multimedia and application player used to enhance the user experience when visiting web pages or reading email messages. Successful exploitation could result in an attacker compromising data security, potentially allowing access to confidential data, compromising processing resources in a user's computer, or remote code execution. Failed exploit attempts will likely cause denial-of-service conditions.

THREAT INTELLIGENCE

There are currently no reports of these vulnerabilities being exploited in the wild.

SYSTEM AFFECTED:

- Adobe Flash Player Desktop Runtime version 19.0.0.185 and earlier and earlier for Windows and Macintosh
- Adobe Flash Player Extended Support Release version 19.0.0.185 and earlier and earlier for Windows and Macintosh
- Adobe Flash Player for Google Chrome version 19.0.0.185 and earlier for Windows, Macintosh, Linux and ChromeOS
- Adobe Flash Player for Microsoft Edge and Internet Explorer 11 version 19.0.0.185 and earlier for Windows 10
- Adobe Flash Player for Internet Explorer 10 and 11 version 19.0.0.185 and earlier for Windows 8.0 and 8.1
- Adobe Flash Player for Linux version 11.2.202.521 and earlier for Linux
- Adobe AIR Desktop Runtime version 19.0.0.190 and earlier for Windows and Macintosh

- Adobe Air SDK version 19.0.0.190 and earlier for Windows, Macintosh, Android, and iOS
- AIR SDK & Compiler version 19.0.0.190 and earlier for Windows, Macintosh, Android, and iOS

RISK:

Government:

- Large and medium government entities: **High**
- Small government entities: **High**

Businesses:

- Large and medium business entities: **High**
- Small business entities: **High**

Home users: High

TECHNICAL SUMMARY:

Adobe Flash Player is prone to multiple vulnerabilities. These vulnerabilities are as follows:

- A vulnerability that could be exploited to bypass the same-origin-policy and lead to information disclosure (CVE-2015-7628).
- A defense-in-depth feature in the Flash broker API (CVE-2015-5569).
- A use-after-free vulnerabilities that could lead to code execution (CVE-2015-7629, CVE-2015-7631, CVE-2015-7643, CVE-2015-7644).
- A buffer overflow vulnerability that could lead to code execution (CVE-2015-7632).
- Memory corruption vulnerabilities that could lead to code execution (CVE-2015-7625, CVE-2015-7626, CVE-2015-7627, CVE-2015-7630, CVE-2015-7633, CVE-2015-7634).

Successful exploitation could result in an attacker compromising data security, potentially allowing access to confidential data, compromising processing resources in a user's computer, or remote code execution. Failed exploit attempts will likely cause denial-of-service conditions.

RECOMMENDATIONS:

We recommend the following actions be taken:

- Install the updates provided by Adobe immediately after appropriate testing.
- Remind users not to visit websites or follow links provided by unknown or untrusted sources.
- Do not open email attachments from unknown or untrusted sources.
- Limit user account privileges to those required only.

REFERENCES:

Adobe:

<https://helpx.adobe.com/security/products/flash-player/apsb15-25.html>

CVE

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7628>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-5569>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7629>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7631>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7643>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7644>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7632>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7625>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7626>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7627>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7630>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7633>
<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-7634>